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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/032,559	01/02/2002	Wesley H. Verkaart	70195-0032	4538
21395	7590 08/26/2003			
LOUIS WOO LAW OFFICE OF LOUIS WOO 717 NORTH FAYETTE STREET			EXAMINER	
			RODRIGUEZ, CRIS LOIREN	
ALEXANDRI	A, VA 22314		ART UNIT	PAPER NUMBER
			3763 DATE MAILED: 08/26/2003	10

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/032,559	VERKAART, WESLEY H.			
	Office Action Summary	Examiner	Art Unit			
		Cris L. Rodriguez	3763			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status.						
1)🖂	Responsive to communication(s) filed on ame	endment filed 5/20/03 .				
2a)⊠	This action is <b>FINAL</b> . 2b) Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4)🖾	Claim(s) 1-21 is/are pending in the application	1.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-14,20 and 21</u> is/are allowed.						
6)⊠ Claim(s) <u>15-18</u> is/are rejected.						
7)⊠ Claim(s) <u>19</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
U.S. Patent and To PTOL-326 (R		ction Summary	Part of Paper No. 10			

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 15 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Thermodynetics, INC. (EP 0 108 525).

Figures 1, 3, and 4 disclose a heat exchanger that makes use of a warming fluid. The heat exchanger has an inner tube 10 and an outer tube 20 that is longer than the inner tube. Found sealed to both the inner and outer tubes at both ends are end caps 26 and 28. According to page 10, lines 1-16, either fluid 16 or 30 can be warmer fluid. It is further made known on page 6, lines 26-27, and page, lines 1-21, that the particular device is used for the warming of blood. Thus, it is inherent that such a device would be sterile.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thermodynetics, Inc. in view of Egeler (DE 3443085 A1).

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Thermodynetics, Inc. discloses the invention substantially as claimed. However, they do not disclose any materials.

Egeler discloses a standard two-tube heat exchanger comprising an inner tube made of aluminum with a helical surface. Given the teachings, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make Thermodynetics, Inc.'s heat exchanger with an aluminum central tube, since such a material is well known in the art, and to provide it with a helical surface as disclosed by Egeler.

## Allowable Subject Matter

- 4. Claims 1-14, 20, and 21 are allowable over the prior art of record.
- 5. Claim 19 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Response to Arguments

6. Applicant's arguments filed May 20, 2003 have been fully considered but they are not persuasive.

In regards to applicants, Figure 4 shows the central tube 410 forming a helical passageway between the central and outer tubes. The center body is only used to support the inner tube 410. The helical path is formed between the space of the central helical tube and outer tube.

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#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time 7. policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cris L. Rodriguez whose telephone number is (703) 308-2194. The examiner can normally be reached on 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on (703) 308-3552. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3590 for regular communications and (703) 305-3590 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

August 13, 2003

Cris L. Rodriguez Examiner

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SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700